TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2017-06-26-05** **Date: 28-06-2017**

Customer : Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP, Bangalore.

Address : Vidyaranayapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains and Covering Slab Mithra Apartment Back side and jacub house road 4th main chamundeshwari layout in ward no.10 Doddabommasandra.

Agency : Sri.N.M.Shivakumar, No:07, 2nd Block, Juganahalli, Rajajinagara, Bangalore - 560010.

Customer's Reference : BBMP/EE/BTP/WO/85/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-06-17

Sample ID No : 2017-06-26-05-01

Sample Type : Birla Super 53 grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6

Date of test : 26-06-17

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.41	_
2	Finess by Air permeablity method (m^2/kg, Min)	265	225m^2/kg, Min
3	Density (gm/cc)	3.19	_
4	Standard Consistency (%)	27.5%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	265 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

Note:
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Prepared by
Harshitha

28/7/17

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Page 1/1
****End of Report****

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-06-26-05** **Date: 24-06-2017**
Customer	:	Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranayapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains and Covering Slab Mithra Apartment Back side and jacub house road 4th main chamundeshwari layout in ward no.10 Doddabommasandra.
Agency	:	Sri.N.M.Shivakumar, No:07, 2nd Block, Juganahalli, Rajajinagara, Bangalore - 560010.
Customer's Reference	:	BBMP/EE/BTP/WO/85/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-06-17
Sample ID No	:	2017-06-26-05-01
Sample Type	:	Birla Super 53 grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	26-06-17

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	54.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-06-26-05** **Date: 29-06-2017**
Customer	:	Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranayapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains and Covering Slab Mithra Apartment Back side and jacub house road 4th main chamundeshwari layout in ward no.10 Doddabommasandra.
Agency	:	Sri.N.M.Shivakumar, No:07, 2nd Block, Juganahalli, Rajajinagara, Bangalore - 560010.
Customer's Reference	:	BBMP/EE/BTP/WO/85/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	26-06-17
Sample ID No	:	2017-06-26-05-02(b)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	27-06-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	276	276	1.8	98.2	90-100
3	20 mm	5320	5596	37.3	62.7	30-70
4	10 mm	4990	10586	70.6	29.4	10-35
5	4.75 mm	4089	14675	97.8	2.2	0-5
6	Pan	325	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-06-26-05** **Date: 29-06-2017**

Sample ID No : 2017-06-26-05-02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.8	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.4	
3	Specific Gravity	2.68	_
4	Bulk Density(Loose) (Kg/l)	1.49	_
5	Bulk Density(Compacted) (Kg/l)	1.54	_
6	Water Absorption(%)	0.23	_

Note:

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Authorized Signatory
Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-06-26-05** **Date: 29-06-2017**
Customer	:	Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranayapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains and Covering Slab Mithra Apartment Back side and jacub house road 4th main chamundeshwari layout in ward no.10 Doddabommasandra.
Agency	:	Sri.N.M.Shivakumar, No:07, 2nd Block, Juganahalli, Rajajinagara, Bangalore - 560010.
Customer Reference	:	BBMP/EE/BTP/WO/85/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-06-17
Sample ID No	:	2017-06-26-05-02(a)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	27-06-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	280	280	5.6	94.4	90-100
3	10 mm	2300	2580	51.6	48.4	25-55
4	4.75 mm	2280	4860	97.2	2.8	0-10
5	Pan	140	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-06-26-05** **Date: 29-06-2017**

Sample ID No : 2017-06-26-05-02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**12.4**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**11.2**	
3	Specific Gravity	**2.66**	_
4	Bulk Density(Loose) (Kg/l)	**1.56**	_
5	Bulk Density(Compacted) (Kg/l)	**1.59**	_
6	Water Absorption(%)	**0.23**	_
7	Aggregate crushing Value(%)	**23.4**	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	**22.6**	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Authorized Signature
Quality Manager

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-06-26-05** **Date: 29-06-17**

Customer : Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP, Bangalore.

Address : Vidyaranayapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains and Covering Slab Mithra Apartment Back side and jacub house road 4th main chamundeshwari layout in ward no.10 Doddabommasandra.

Agency : Sri.N.M.Shivakumar, No:07, 2nd Block, Juganahalli, Rajajinagara, Bangalore - 560010.

Customer's Reference : BBMP/EE/BTP/WO/85/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-06-17

Sample ID No : 2017-06-26-05-03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 27-06-17

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	86	86	8.6	91.4	90-100	90-100	90-100	95-100
3	2.36 mm	134	220	22	78.0	60-95	75-100	85-100	95-100
4	1.18 mm	178	398	39.8	60.2	30-70	55-90	75-100	90-100
5	600 micron	167	565	56.5	43.5	15-34	35-59	60-79	80-100
6	300 micron	188	753	75.3	24.7	5-20	8-30	12-40	15-50
7	150 micron	162	915	91.5	8.5	0-10	0-10	0-10	0-15
8	Pan	85	1000	100	0	---	---	---	---
Result :The tested Sample Conforms to Grading Zone II									

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-06-26-05** **Date: 29-06-17**

Sample ID No : 2017-06-26-05-03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.35	_
2	Specific Gravity	2.58	_
3	Material finer than 75 micron(%)	5.4	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Authorized Signatory
Quality Manager

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-06-28-01** **Date: 30-06-2017**
Customer	:	Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranayapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains and Covering Slab Mithra Apartment Back side and jacub house road 4th main chamundeshwari layout in ward no.10 Doddabommasandra.
Agency	:	Sri.N.M.Shivakumar, No:07, 2nd Block, Juganahalli, Rajajinagara, Bangalore - 560010.
Customer's Reference	:	BBMP/EE/BTP/WO/85/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-06-17
Sample ID No	:	2017-06-28-01-01
Sample Type	:	JSW
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	29-06-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	JSW	Fe500	8	0.392	545	670	20.0%	Satisfactory	Satisfactory
2	JSW	Fe500	10	0.612	572	688	19.0%	Satisfactory	Satisfactory

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-07-04-01** **Date: 07-07-17**

Customer : Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP, Bangalore.

Address : Vidyaranayapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains and Covering Slab Mithra Apartment Back side and jacub house road 4th main chamundeshwari layout in ward no.10 Doddabommasandra.

Agency : Sri.N.M.Shivakumar, No:07, 2nd Block, Juganahalli, Rajajinagara, Bangalore - 560010.

Customer's Reference : BBMP/EE/BTP/WO/85/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-07-17

Sample ID No : 2017-07-04-01-01

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/07/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	30/06/2017	07/07/2017	150.22 X 150.20 X 150.18	22563	8.289	288.8	12.8	12.4
2	PCC	M15	30/06/2017	07/07/2017	150.15 X 150.19 X 150.11	22551	8.243	268.4	11.9	
3	PCC	M15	30/06/2017	07/07/2017	150.24 X 150.23 X 150.28	22571	8.322	282.1	12.5	

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Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-07-06-01** **Date: 11-07-17**

Customer : Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP, Bangalore.

Address : Vidyaranayapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains and Covering Slab Mithra Apartment Back side and jacub house road 4th main chamundeshwari layout in ward no.10 Doddabommasandra.

Agency : Sri.N.M.Shivakumar, No:07, 2nd Block, Juganahalli, Rajajinagara, Bangalore - 560010.

Customer's Reference : BBMP/EE/BTP/WO/85/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-07-17

Sample ID No : 2017-07-06-01-01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/07/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	04/07/2017	11/07/2017	150.22 X 150.28 X 150.22	22575	8.320	413.1	18.3	18.3
2	Drain Concrete	M20	04/07/2017	11/07/2017	150.29 X 150.21 X 150.28	22575	8.342	408.6	18.1	
3	Drain Concrete	M20	04/07/2017	11/07/2017	150.22 X 150.23 X 150.24	22568	8.322	419.8	18.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-07-06-01** **Date: 12-07-17**

Customer : Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP, Bangalore.

Address : Vidyaranayapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains and Covering Slab Mithra Apartment Back side and jacub house road 4th main chamundeshwari layout in ward no.10 Doddabommasandra.

Agency : Sri.N.M.Shivakumar, No:07, 2nd Block, Juganahalli, Rajajinagara, Bangalore - 560010.

Customer's Reference : BBMP/EE/BTP/WO/85/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-07-17

Sample ID No : 2017-07-06-01-02

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/07/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	05/07/2017	12/07/2017	150.18 X 150.17 X 150.14	22553	8.250	390.2	17.3	17.5
2	Drain Concrete	M20	05/07/2017	12/07/2017	150.22 X 150.24 X 150.29	22569	8.312	404.0	17.9	
3	Drain Concrete	M20	05/07/2017	12/07/2017	150.19 X 150.20 X 150.24	22559	8.308	392.5	17.4	

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